nud reference Vit updated.

Turbine Coordination Meeting December 11-12, 2001

Maintenance Planner

Outage start date

Unit off line after peak Friday night 3-1-2002. Work start Saturday day shift 3-2-2002

Available for full load, Monday 4-1-2002 Work cards in Friday 3-29-2002 28 work days available

Personnel

Maintenance

Mike Alley Project Manager Craig Teeples Day shift Supervisor Night shift Supervisor / Con Jokas Will Lovell Richard Houston Maintenance Engineer

Technical Services

Kelly Cloward

James Nelson Supervising Engineer Phong Do QA/QC Day shift Dave Spence QA/QC Night shift

Manpower

- Shift hours
 - Crewman

Work scope

HP Turbine

HP turbine upgrade N1, N2 retractable packing

Tops on/Tops off alignment HP+IP

Extraction pipe welding - our controlor

IP Turbine

IP overhaul

8th stage installation spee

Boresonic inspection

Steam path audit Noun Gorry

Low speed rotor balance

Diaphragm retractable packing installation

Front Standard & EHC

- PMG overhaul
- MOP Replace the check valve disk
- Replacement/overhaul MTV, MLV, ETV, ELV, MTSV, ORSV, OTSV, ARDV's, ETSV, ORP, MTP

hydraulk Nuts

- Repair low speed switches in front standard
- EHC line up

Valves

- Overhaul Main Stop Valves
- pull seats on #2 and #4 for steam chest inspection
- Overhaul Main Control Valves
- send control pacs out for inspection/repair
- overhaul control pac spring cans on site
- Valve tightness test on shutdown and start up
- Overhaul Combined Reheat/Intercept valves
- Overhaul Equalizer Valve
- Overhaul Ventilator Valve
- Install steam lead pressure taps on CV3 and CV4 (north end top and bottom leads) with

CV4 pipe run to the PT cabinet. (34 steep Press

Weld cap the existing 1st stage pressure sensor line

Couplings

- Control rotor coupling machining- rabbet fit.
 - "A" coupling line bore
 - eliminate the current rabbet fit
- install new sleeves, use existing bolts

hydraute

BFPT goundstaps

Generator

- Vacuum/Pressure test
- Grind collector rings-turning gear
- Remove upper-outer end bells for inspection/repair
- Possible repair of stator leak
- MAGIC robotic inspection of stator and rotor
- Electrical testing

Boiler Feed Pumps, BFPT and Valves

- Overhaul BFP 2FWA-P-1B, install volute w/ performance upgrade
- Install new bearing housings
- NDE and thickness mapping of BFP 2FWA-P-1B nozzles and barrel
- Replace MBV-10
- Overhaul BFPT controls on both A & B
- Torque meter installation on BFP 2FWA P-1A?

Contractors

Alstom Technical direction HP React? LosePhanServices MD & A HP/IP Alignment

Technical direction IP and valves

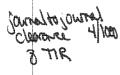
Continental Field Systems Onsite machine work Midwest Turbine Inspection Sandblasting

Mannings USA Induction bolt heating Shell closing system

Reinhart & Associates Rotor Boresonic inspection/NDE

General Electric Collector ring grinding MAGIC inspection

2



Serro-arm EHC Ineup Tropocard

retractable packing

MD & A

Vacuum/pressure test Electrical testing

MD & A

Diaphragm/steam path repair

Prime Machine

Low speed balance IP rotor

FlowServe

BFP NDE and Mapping

Safety Orientation

Schedule

- Delivery dates
 - Mobilization
- Contractor start dates
- Time line/Critical Path

Onsite Machining Requirements

Equipment

Attr. Kuly asward

Delivery

Laydown Drawings

- Load bearing areas identified
- Rotor stands
- Parts storage

Rigging Procedures

- Drawings
- Rigging
- Specialty tools

Manufacturing Update

Shipping

Spares Availability

Packers

Technical Issues

- Installation key steps and outline
- HP/IP alignment

HP extraction line work scope and welding procedure

Current turbine vibration

Bearing alignment on B coupling

Valve card and wiring change out procedure and drawing

Others

Domestic

Cleaning

Opening reasurements

Sterro Brune-Island

trasalta

3

Preoutage Survey

Performance Testing

Office Needs

- Computers
- Telephones
- Printers/copiers/fax

Other